



**Missouri Department of Natural Resources**  
**Strother Creek WBID 2751**  
**Invertebrate data 2003-2004**

Org.	Site	Site Name	Year	Score
USGS	2755/30.5	W. Fk. Black R. nr. Greeley (R)*	2003	18
USGS	2755/30.5	W. Fk. Black R. nr. Greeley (R)*	2004	18
USGS	2755/	W. Fk. Black R. bl. Bill's Cr.	2004	16
USGS	2755/22.3	W. Fk. Black R. bl. West Fork Mine Outfall (M)	2003	12
USGS	2755/22.3	W. Fk. Black R. bl. West Fork Mine Outfall (M)	2004	14
USGS	2755/16.0	W. Fk. Black R. 6.3 mi. bl. WF Mine	2004	18
USGS	2755/12.2	W. Fk. Black R. @ Sutton Bluff	2003	12
USGS	2755/12.2	W. Fk. Black R. @ Sutton Bluff	2004	18
USGS	2755/8.4	W. Fk. Black R. @ Centerville	2004	14
USGS	2760/8.0	Bee Fk. bl. Grasshopper Hollow (M)	2003	14
USGS	2760/8.0	Bee Fk. bl. Grasshopper Hollow (M)	2004	16
USGS	2760/4.6	Beef Fk. 4.6mi upstream nr CR 854	2004	14
USGS	2760/0.4	Bee Fk. 0.4mi upstream of W.Fk. Black R.	2004	16
USGS	2744/16.3	M.Fk. Black R. bl. Strother Cr.	2004	17*
USGS	2744/9.0	M.Fk. Black R. bl. Bushy Cr. (R )	2004	20
USGS	2751/4.5	Strother Cr. ab Neal's Cr. (M)	2003	12
USGS	2751/4.5	Strother Cr. ab Neal's Cr. (M)	2004	10
USGS	2751/3.1	Strother Cr. bl Neal's Cr.	2004	18
USGS		Greer Spring Br. (R )	2003	19*
USGS		Blair Creek (R )	2003	18
USGS		Blair Creek (R )	2004	20
USGS		Huzzah Creek (R )	2003	16
USGS		Huzzah Creek (R )	2004	18
USGS		Sinking Cr. (R )	2003	14
USGS		Eleven Point R. (R )	2004	12

\* mean of three score for triplicate samples at this location and date

Invertebrate monitoring by Poulton, et al\*\* used the DNR metric scoring for one habitat type (riffle) found impaired aquatic invertebrate communities on West Fork Black River below the West Fork Mine and on Strother Creek below the Buick Mine. Overall 5 of 6 samples (83%) on sites within the first few miles of a mine/mill showed an impaired invertebrate community, compared to 3 of 9 (33%) of sites further downstream. Only 2 of ten sites (20%) of reference stream samples showed impaired scores.

According to the LMD, when there are 7 invertebrate samples or fewer, at least 75% of those available must score 14 or less for a site to be judged as impaired. Since two of two (100%) samples scored 14 or less above Neal's Cr., this reach of Strother Cr. is judged to be **impaired**. Since there is only one sample from below Neals Cr., this segment of Strother Cr. is judged to be inconclusive. However, in combination with crayfish density and toxicity studies conducted by the USGS, all of Strother Cr. will be judged as **impaired**.